

Fig. 1 Prior Art

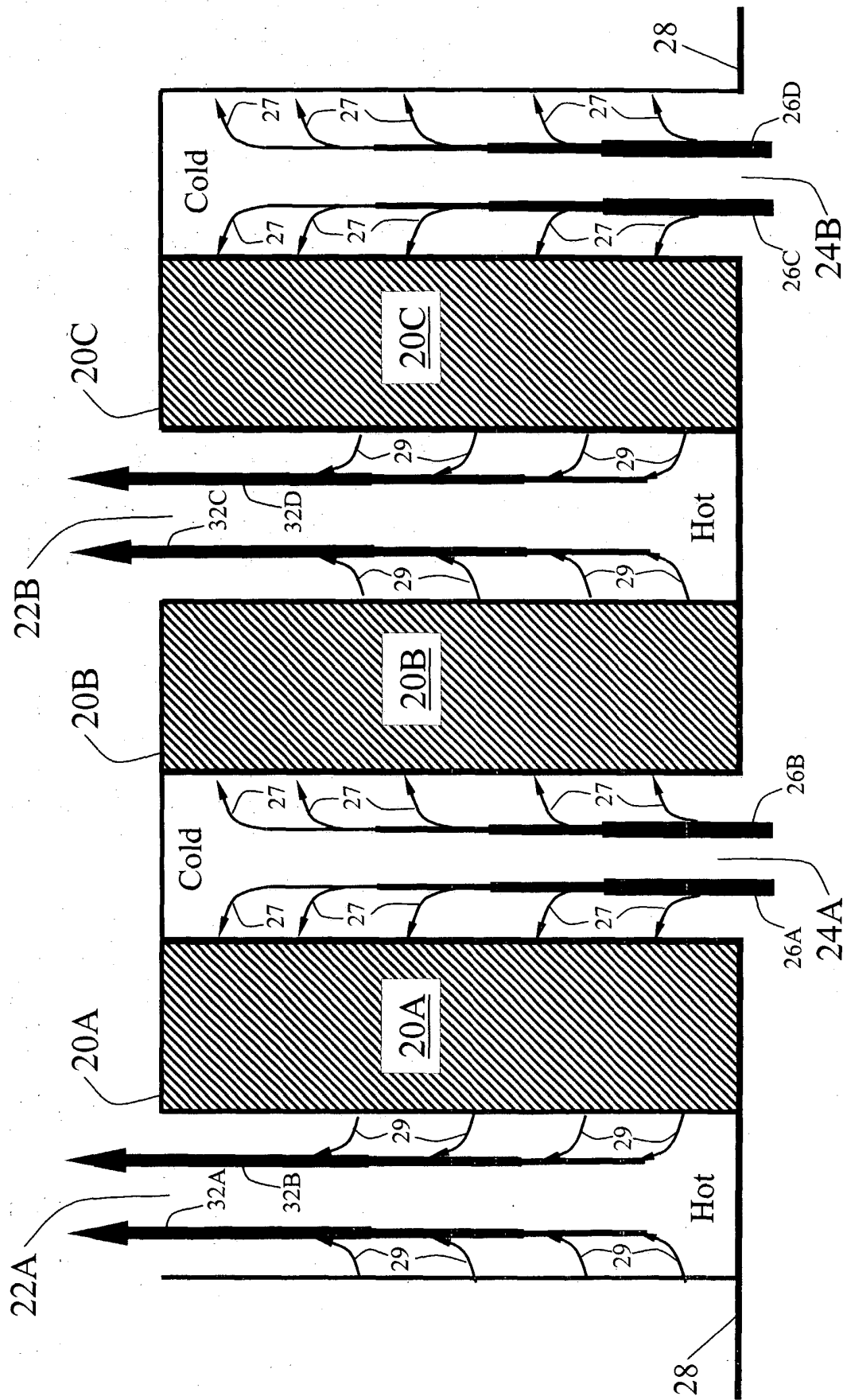
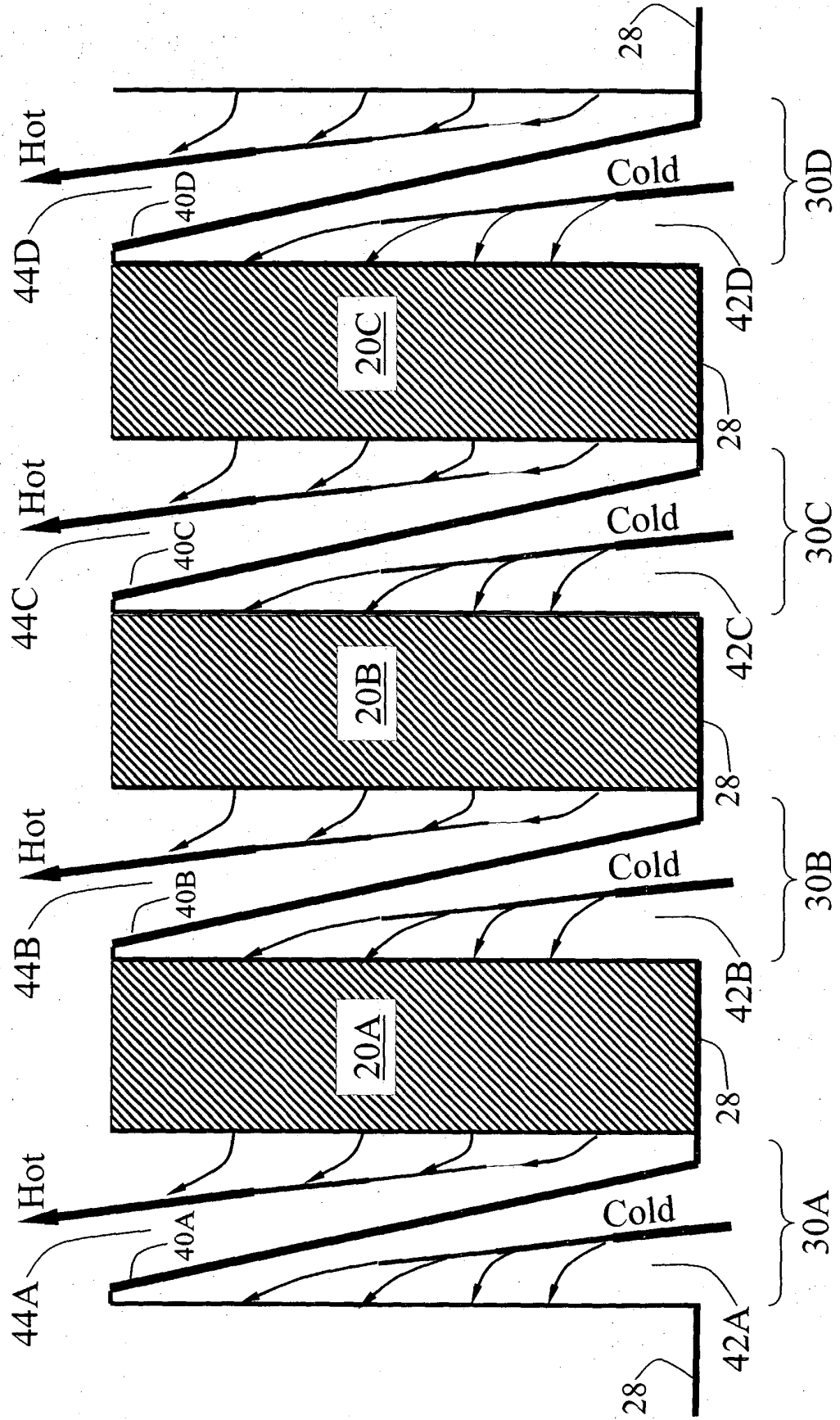


Fig. 2



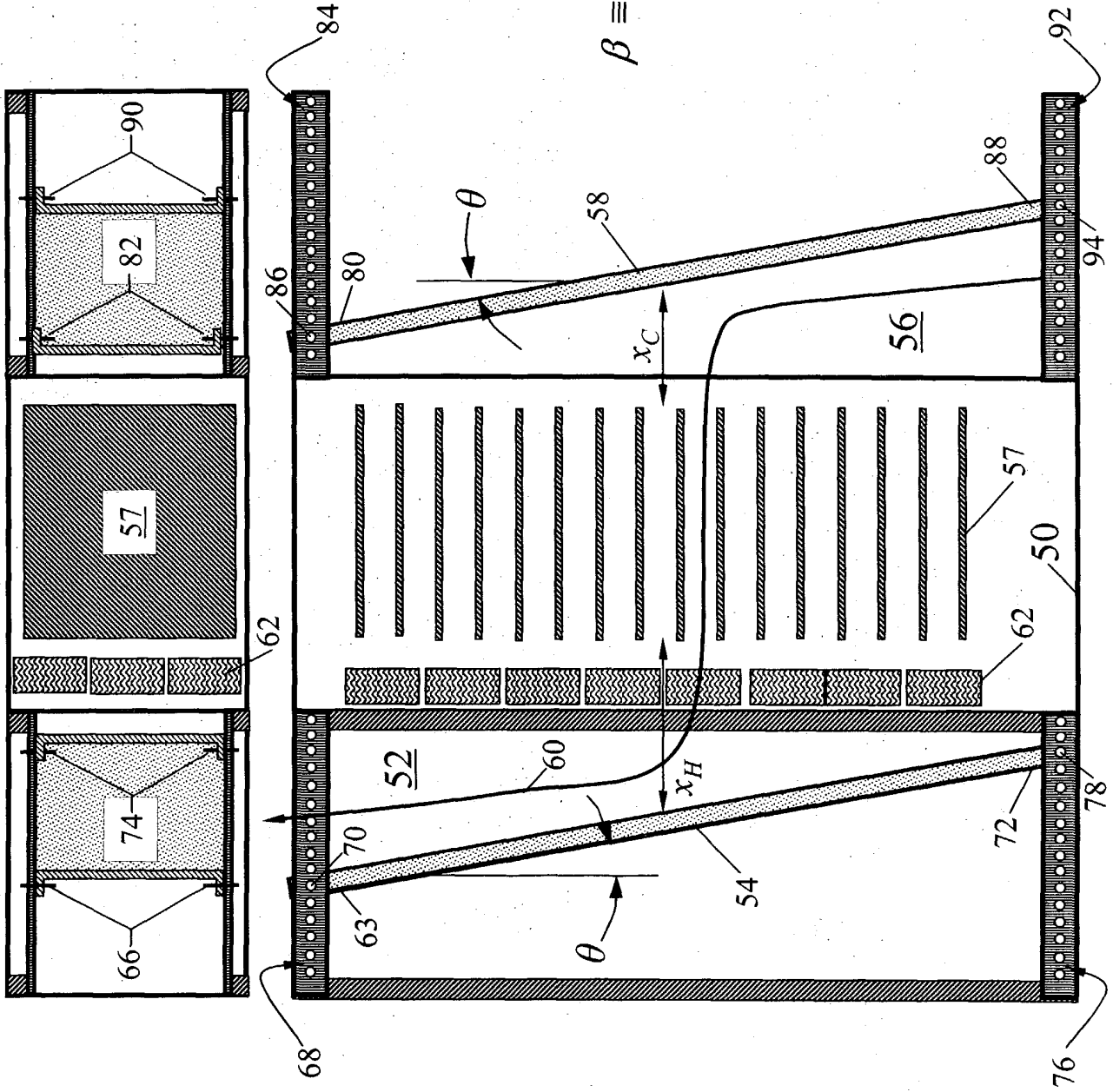


Fig. 3A

$$\beta \equiv \frac{x_H}{x_H + x_C}$$

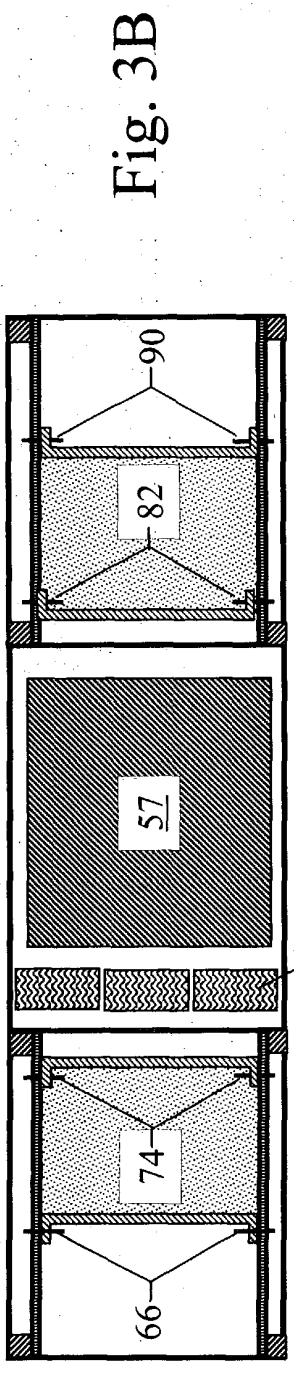


Fig. 3B

Fig. 4

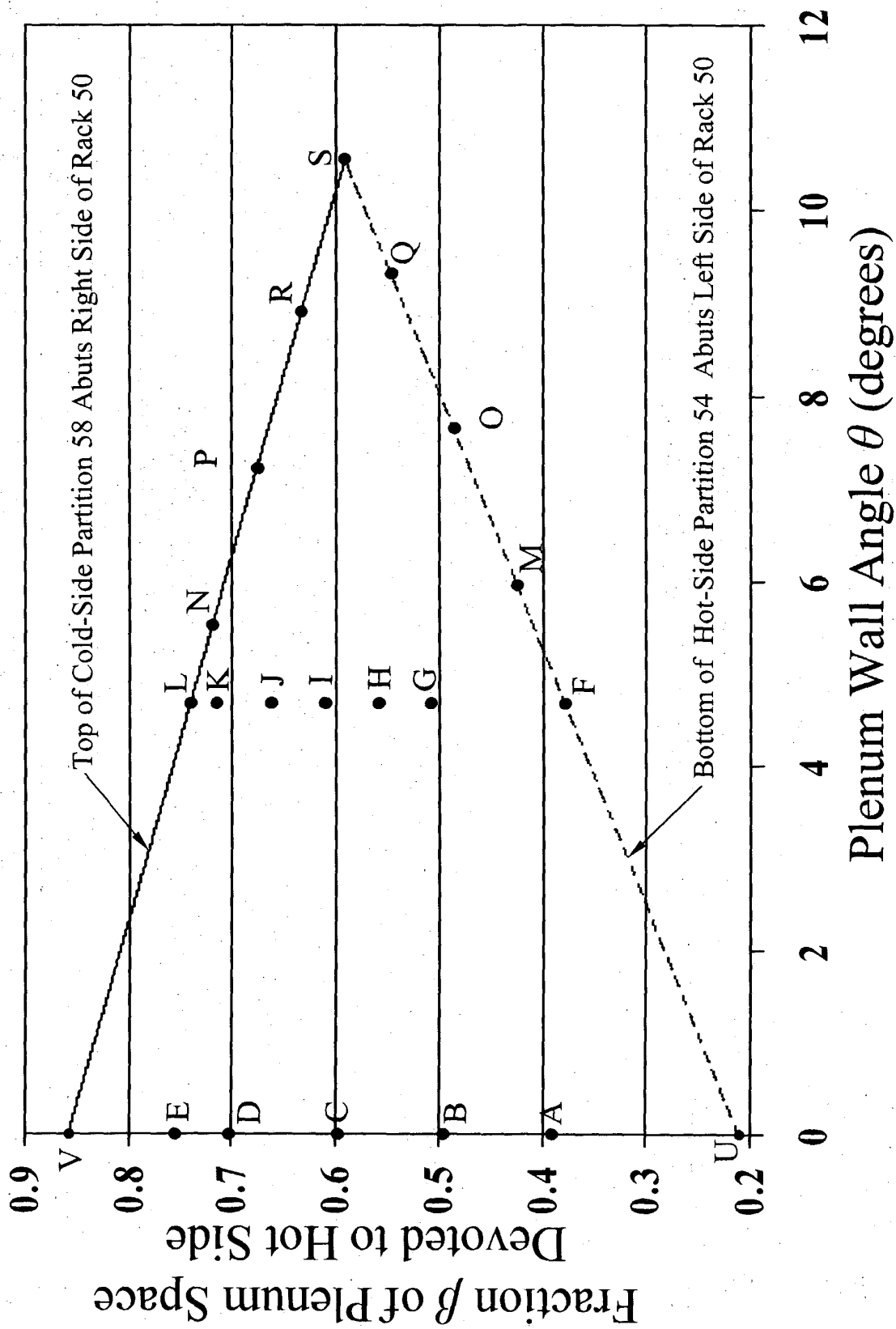


Fig. 5

C:  $T_{AVE} = 57.66\text{ }^{\circ}\text{C}$  (best  $\theta = 0$ )

R:  $T_{AVE} = 46.68\text{ }^{\circ}\text{C}$

S:  $T_{AVE} = 46.47\text{ }^{\circ}\text{C}$  (best  $\theta \neq 0$ )

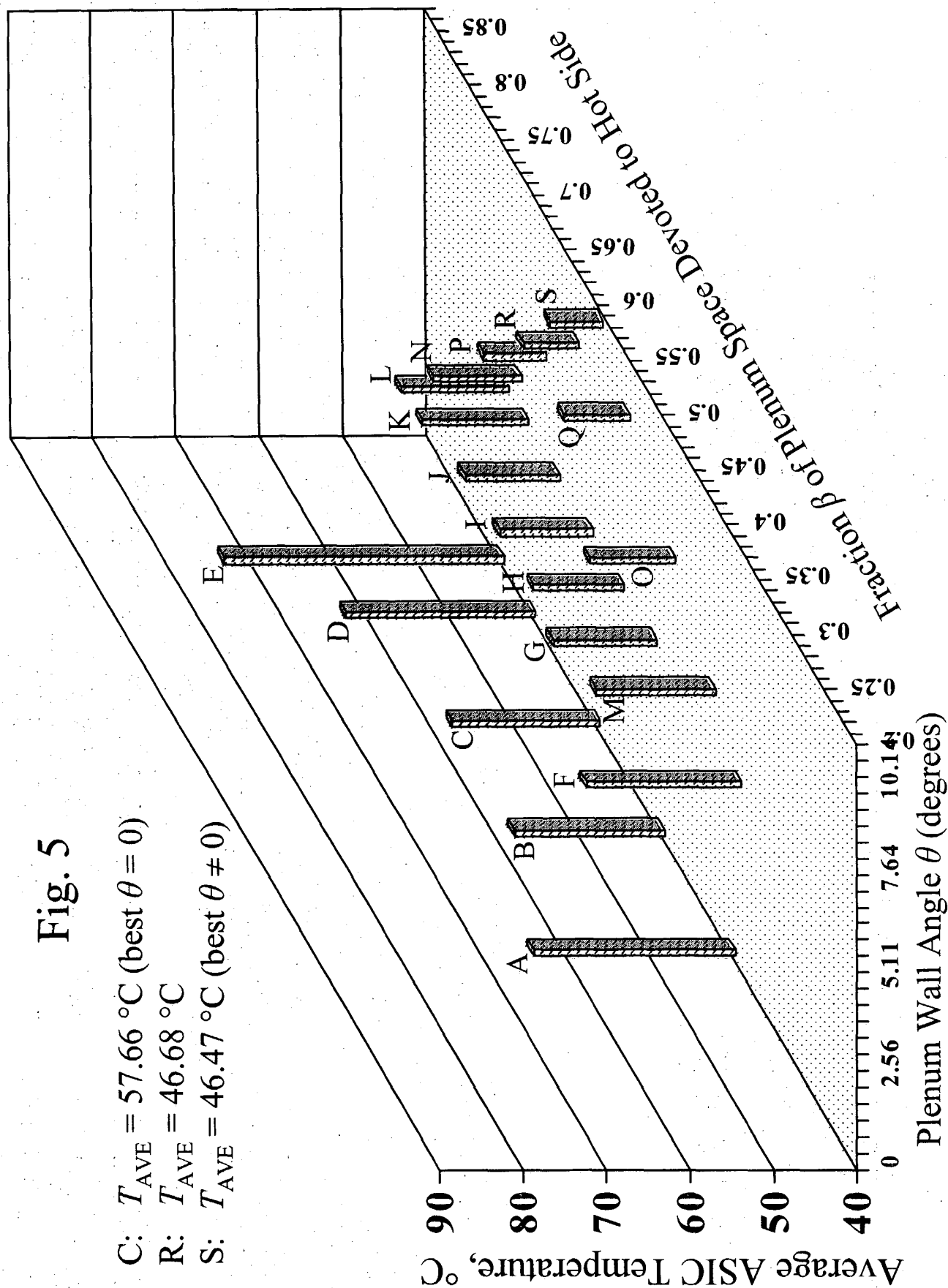
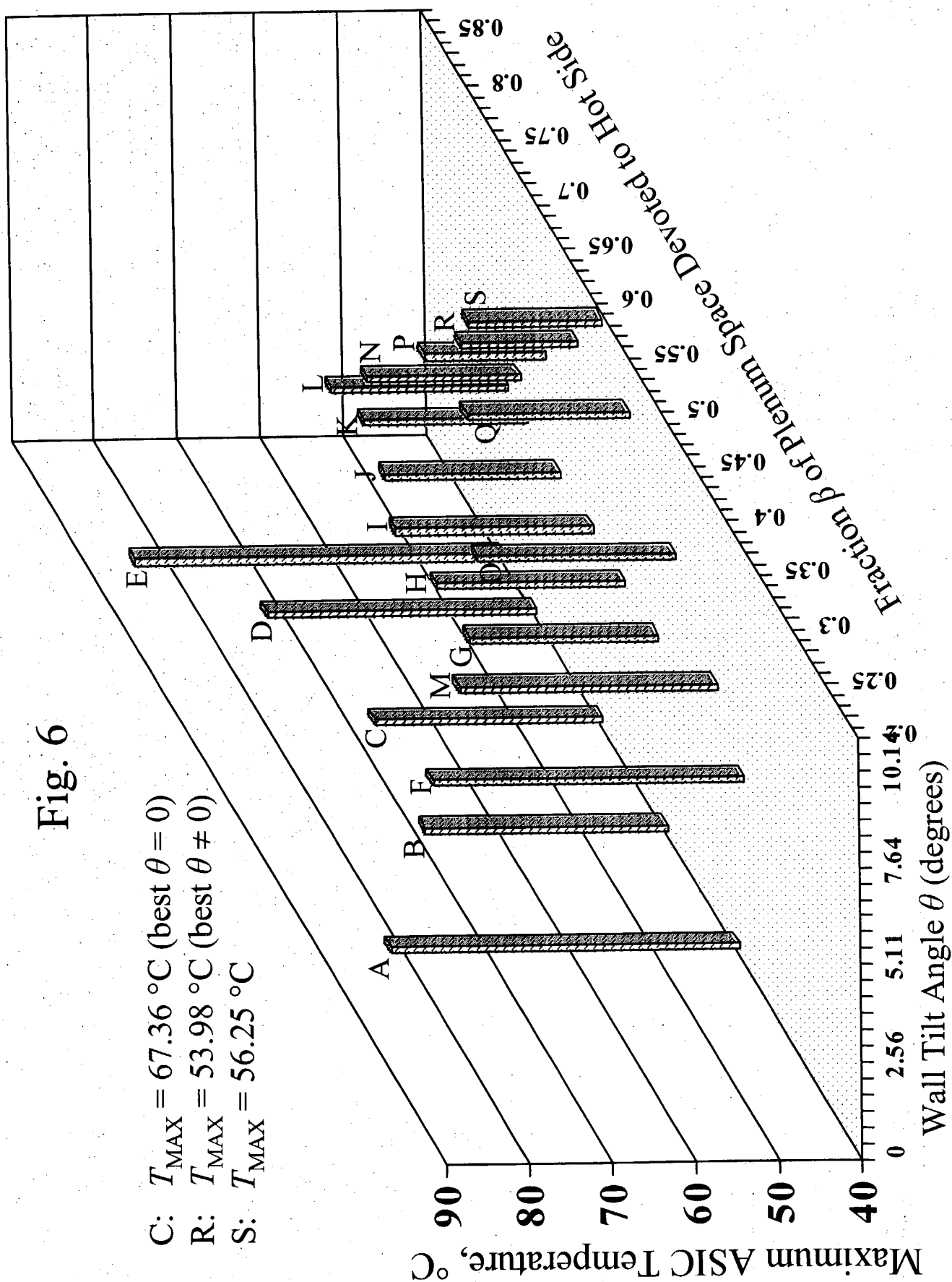


Fig. 6

C:  $T_{MAX} = 67.36\text{ }^{\circ}\text{C}$  (best  $\theta = 0$ )  
 R:  $T_{MAX} = 53.98\text{ }^{\circ}\text{C}$  (best  $\theta \neq 0$ )  
 S:  $T_{MAX} = 56.25\text{ }^{\circ}\text{C}$



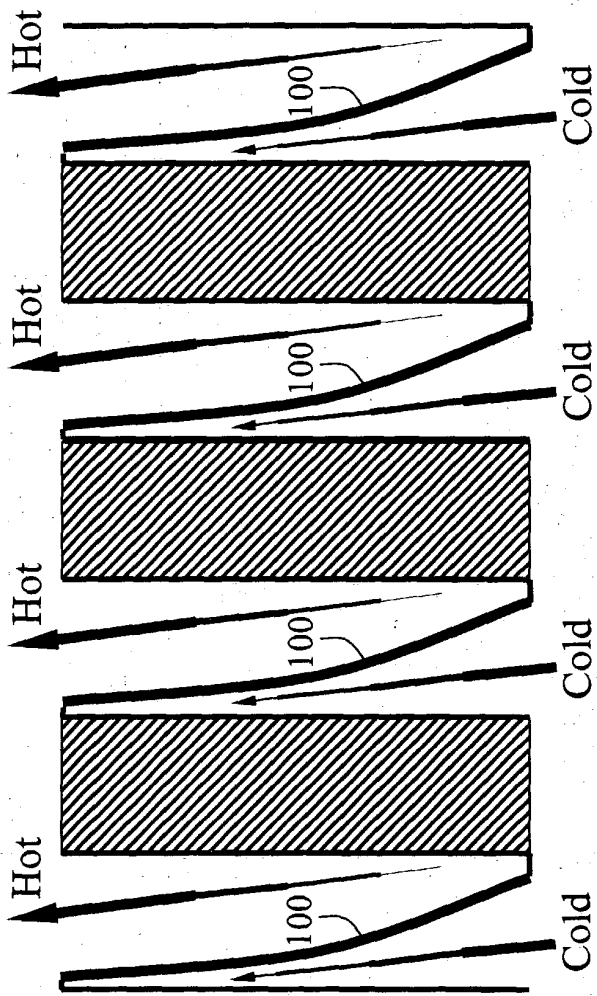


Fig. 7

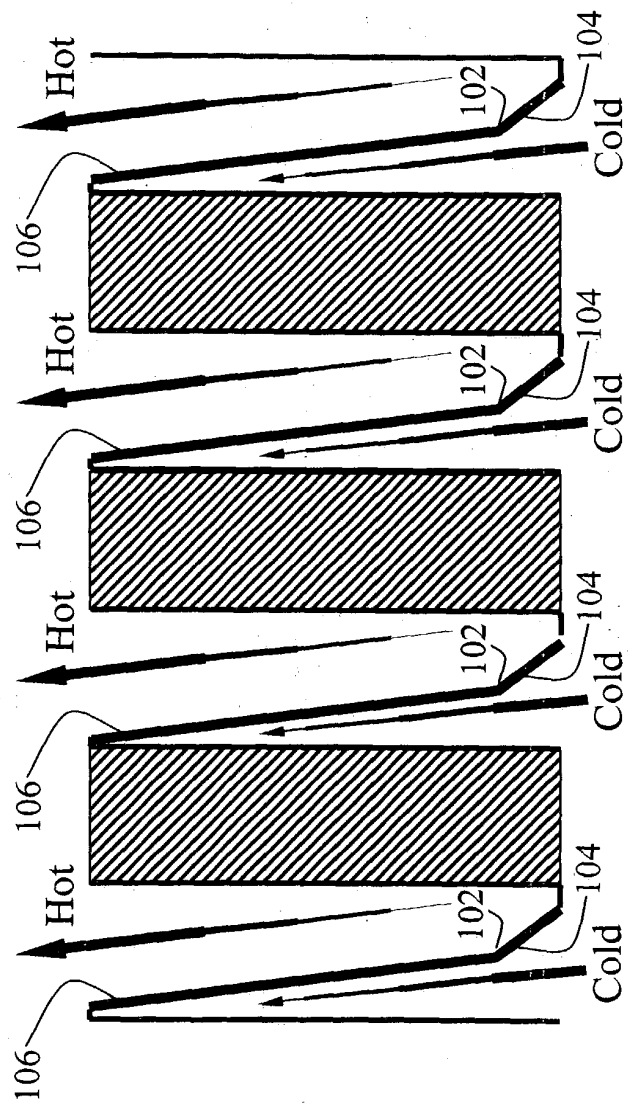


Fig. 8

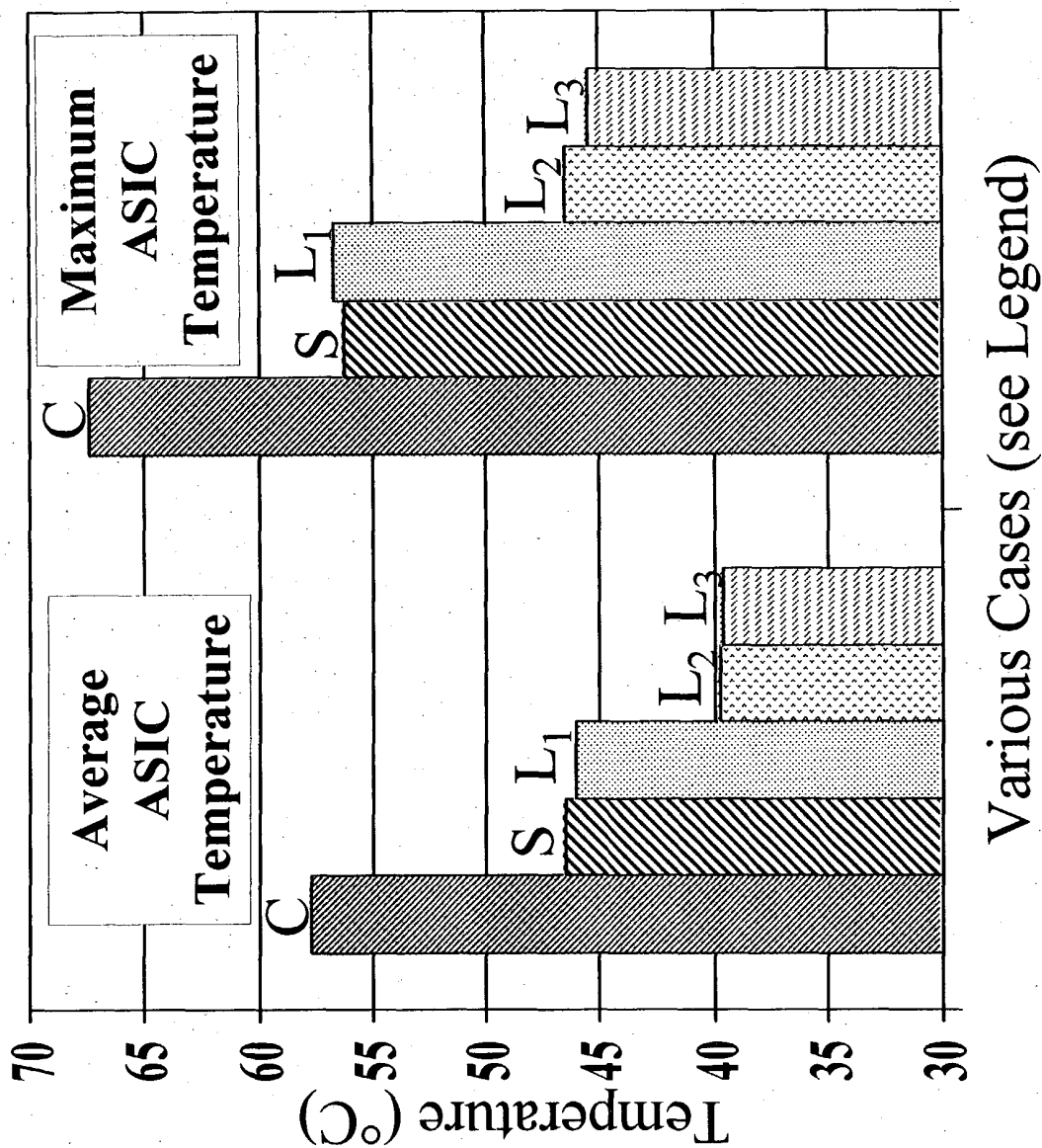


Fig. 9

For racks on 36-inch centers:  
 Case C: Prior-art's best case  
 Case S: Invention's best case if  
 profile of sloped partitions  
 is straight  
 Limiting cases (infinitely wide plenums):  
 Case L<sub>1</sub>: Cold-side partition 58 removed  
 Case L<sub>2</sub>: Hot-side partition 54 removed  
 Case L<sub>3</sub>: Both partitions removed

Various Cases (see Legend)